



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

Division of Drinking Water

March 22, 2016

System No. 0510017

Teresa Tanaka, Director of Operations
CCWD – Copper Cove
P.O. Box 846
San Andreas, CA 95249

TRANSMITTAL OF CITATION NO. 01-10-16C-004

The Calaveras County Water District – Copper Cove (hereinafter “Copper Cove”) water system (No. 0510017) failed to operate its surface water treatment plant in accordance with its approved Operations Plan, as well as the permit conditions established in the domestic water supply permit (03-10-02P-004), issued by the State Water Resources Control Board, Division of Drinking Water (hereinafter “Division”), on August 13, 2002. The Division has issued Citation No. 01-10-16C-004, in response to this violation. The Citation is being transmitted to Copper Cove under cover of this letter.

Please respond to the Directives of this Citation by the deadlines established with each item. If you have any questions regarding this Citation, please contact Brian Kidwell by email at Brian.Kidwell@waterboards.ca.gov or by phone at (209) 948-3963.

Sincerely,

Bhupinder S. Sahota, P.E.
District Engineer, Stockton District
NORTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

Attachments:

Citation No. 01-10-16C-004

Certified Mail No. 7004 2890 0002 0057 9874

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FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

31 E. Channel Street, Room 270, Stockton, CA 95202 | www.waterboards.ca.gov

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Attn: Teresa Tanaka, Director of Operations
Calaveras County Water District

**CITATION FOR FAILURE TO OPERATE ITS SURFACE WATER TREATMENT PLANT
IN ACCORDANCE WITH ITS APPROVED OPERATIONS PLAN, AS WELL AS THE
PERMIT CONDITIONS ESTABLISHED IN THE DOMESTIC WATER SUPPLY PERMIT**

RECYCLED WATER FLOW EXCEEDED TEN PERCENT OF THE TOTAL SURFACE
WATER TREATMENT PLANT FLOW

WATER SYSTEM NO. 0510017

CITATION NO. 01-10-16C-004

Issued on March 22, 2016

The State Water Resources Control Board (hereinafter “Water Board”), acting by and through its Division of Drinking Water (hereinafter “Division”) and the Deputy Director for the Division (hereinafter “Deputy Director”), hereby issues this Citation (hereinafter “Citation”) pursuant to Section 116650 of the California Health and Safety Code

1 (hereinafter "CHSC") to the Calaveras County Water District – Copper Cove
2 (hereinafter "Copper Cove") failure to operate its surface water treatment plant in
3 accordance with its approved Operations Plan, as well as the permit conditions
4 established in its domestic water supply permit (03-10-02P-004), issued by the State
5 Water Resources Control Board, Division of Drinking Water (hereinafter "Division"), on
6 August 13, 2002.

8 APPLICABLE AUTHORITIES

9 **Section 116650 of California Health and Safety Code provides:**

10
11 (a) If the Division determines that a public water system is in violation of this chapter
12 or any regulation, permit, standard, citation, or order issued or adopted thereunder,
13 the Division may issue a citation to the public water system. The citation shall be
14 served upon the public water system personally or by certified mail. Service shall be
15 deemed effective as of the date of personal service or the date of receipt of the
16 certified mail. If a person to whom a citation is directed refuses to accept delivery of
17 the certified mail, the date of service shall be deemed to be the date of mailing.

18
19 (b) Each citation shall be in writing and shall describe the nature of the violation or
20 violations, including a reference to the statutory provision, standard, order, citation,
21 permit, or regulation alleged to have been violated.

22
23 (c) A citation may specify a date for elimination or correction of the condition
24 constituting the violation.

25
26 (d) A citation may include the assessment of a penalty as specified in subdivision (e).
27



1 (e) The Division may assess a penalty in an amount not to exceed one thousand
2 dollars (\$1,000) per day for each day that a violation occurred, and for each day that a
3 violation continues to occur. A separate penalty may be assessed for each violation.
4

5 **Copper Cove's approved Operations Plan provides, in relevant part:**
6

7 The percentage of backwash waste reclaim water does not exceed the allowable
8 maximum percentage of 10%.
9

10 **Copper Cove's Domestic Water Supply Permit provides, in relevant part:**
11

12 4. CCWD should operate its backwash recovery system to meet the following criteria:
13 b) Less than or equal to 10 percent of recycled water in the plant flow during
14 recycling
15

16 **STATEMENT OF FACTS**

17 The Copper Cove water system is operated under Water Supply Permit No. 03-10-
18 02P-003, which was issued on August 13, 2002.
19

20 The Copper Cove water system is publically owned and operated by the Calaveras
21 County Water District (hereinafter "CCWD"). The CCWD also owns and operates four
22 other public water systems within the Calaveras County. The Copper Cove Water
23 System is located on the northwest shore of Lake Tulloch, approximately 35 miles to
24 the east of Stockton and 5 miles south of the town of Copperopolis. The Copper
25 Cove service area includes 10 existing developments (7 in Copper Cove, Tulloch
26 Shores, KenKraft, and Copperopolis) and 4 approved developments owned by CCWD
27 (Conner Estates, Copper Meadows, Scenic Oaks, and Saddle Creek). The Copper



1 Cove water system is classified as a community water system that serves primarily
2 residential customers living within Copper Cove's service area. The current water
3 system serves approximately 6,247 people through 2,507 service connections.
4

5 The sole source of raw water supply is Lake Tulloch, which is fed by the Stanislaus
6 River. The water system is served by a 4.0 MGD capacity contact
7 clarification/filtration surface water treatment plant, known as the Copper Cove Water
8 Treatment Plant (hereinafter "CCWTP"). The plant has provisions for future
9 expansion to 8 MGD capacity. The intake structure for the CCWTP is located in the
10 Black Creek Tributary of the lake, approximately 1.0 mile upstream of the main
11 Stanislaus Channel.
12

13 The treatment of water at the CCWTP includes, pre-ozonation, pre-chlorination (as a
14 backup to ozone), coagulation and chemical mixing, upflow contact clarification,
15 mixed media gravity filtration, corrosion control, and post-chlorination. The backwash
16 water, filter-to-waste, and clarifier flush are reclaimed and returned to the headworks
17 of the water treatment plant. The finished water is stored in a 300,000 gallon capacity
18 onsite clearwell and a 750,000 gallon capacity terminal reservoir (Tank B), before
19 delivery to the distribution system. Five treated water storage tanks are present in the
20 distribution system to meet peak demands and fire flows.
21

22 On March 14, 2016, the Division was notified, via a phone call from Jesse Hampton,
23 that the backwash water return rate of the CCWTP exceeded ten percent of the total
24 treatment plant flow. According to Copper Cove's incident report, submitted to the
25 Division on March 17, 2016:
26

1 On March 9th, the Copper Cove Water plant had a backwash return
2 pumping system flow change during the early morning hours. The
3 operators had the flow set to 7.5% and adjusted it to 8.6% on March
4 8th late afternoon. We are unsure if the pump that was in operation
5 was partially blocked and had cleared itself out over night or if the
6 valve that is used for flow control had shifted positions allowing more
7 flow. It is more likely the pump not the valve that caused the
8 problem.

9
10 During the overnight period the backwash return rate was exceeded,
11 the maximum return rate was 2.5hrs @12.5% and 3 hrs @11.7%
12 return rate. We corrected the flow within 10 minutes of starting the
13 daily shift at 07:00. The flow was corrected @ 07:09 hrs.

14
15 We have since had an operator meeting discussing the backwash
16 return operation. The valve will be set with the valve being closed
17 down against the flow in order to have the valve tight in the gear box.
18 This should leave the valve in a more stable position. We have also
19 put in a work order to have programming installed in our SCADA
20 System to have the SCADA call out for a High Backwash Return Flow
21 Alarm just in case this problem should occur again.

22 23 DETERMINATION

24 The Division has determined that Copper Cove failed to operate its surface water
25 treatment plant in accordance with its approved Operations Plan, as well as the permit
26 conditions established in its domestic water supply permit due to the fact that more
27 than ten percent of the total surface water treatment plant flow was reclaimed water.

1 Failure to operate a surface water treatment plant in accordance with an approved
2 Operations Plan and/or domestic water supply permit conditions is a violation.

3
4 **DIRECTIVES**

5 Copper Cove is hereby directed to take the following actions:

- 6
- 7 1. It is noted in the Incident Report that a work order has been issued to have
8 programming installed into the SCADA System to call out in the event of a
9 backwash return flow greater than ten percent of the total plant flow. However,
10 a SCADA call out does not prevent the problem from happening again. By
11 April 30, 2016, Copper Cove shall provide the Division a written plan which
12 outlines what Copper Cove is going to do to prevent the problem from
13 happening again.
- 14
- 15 2. During the investigation of this violation, the Division determined that Copper
16 Cove's Operation Plan is not current and needs to be updated. By July 31,
17 2016, Copper Cove shall internally review the existing Operations Plan and
18 submit a Revised Operation and Maintenance Plan to the Division for review
19 and approval.

20

21 The Division reserves the right to make such modifications to this Citation as it may
22 deem necessary to protect public health and safety. Such modifications may be
23 issued as amendments to this Citation, and shall be deemed effective upon issuance.

24

25 Nothing in this Citation relieves Copper Cove of its obligation to meet the
26 requirements of the California Safe Drinking Water Act, or of any regulation, permit,
27 standard, or order issued or adopted thereunder.



1
2 All submittals required by this Citation shall be submitted to the Division at the
3 following address:

4
5 Brian Kidwell, P.E.
6 Associate Sanitary Engineer
7 State Water Resources Control Board, Division of Drinking Water
8 31 E. Channel Street, Room 270
9 Stockton, CA 9202
10

11 **PARTIES BOUND**

12 This Citation shall apply to and be binding upon Copper Cove, its officers, directors,
13 shareholders, agents, employees, contractors, successors, and assignees.
14

15 **SEVERABILITY**

16 The Directives of this Citation are severable, and Copper Cove shall comply with each
17 and every provision thereof, notwithstanding the effectiveness of any other provision.
18

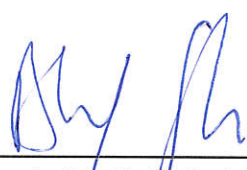
19 **FURTHER ENFORCEMENT ACTION**

20 The California SDWA authorizes the Board to: issue citation with assessment of
21 administrative penalties to a public water system for violation or continued violation of
22 the requirements of the California SDWA or any permit, regulation, permit or order
23 issued or adopted thereunder including, but not limited to, failure to correct a violation
24 identified in a citation or compliance order. The California SDWA also authorizes the
25 Board to take action to suspend or revoke a permit that has been issued to a public
26 water system if the system has violated applicable law or regulations or has failed to
27 comply with an order of the Board; and to petition the superior court to take various
28 enforcement measures against a public water system that has failed to comply with

1 violates an order of the Board. The Board does not waive any further enforcement
2 action by issuance of this citation.

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4
5
6
7 3/22/2016

8 Date

9 
10 Bhupinder S. Sahota, P.E.
11 District Engineer, Stockton District
12 Division of Drinking Water
13 State Water Resources Control Board

14 Attachments:

- 15 1. Proof of Notification Form

16 Certified Mail No. 7004 2890 0002 0057 9874



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